

B23

**Family list**

7 family members for:

**WO0204402**

Derived from 6 applications.

- Attached*
- 1 **Ester derivatives**  
Publication info: **AU7102701 A** - 2002-01-21
  - 2 **ESTER DERIVATIVES**  
Publication info: **CA2415468 A1** - 2003-01-10
  - 3 **ESTER DERIVATIVES**  
Publication info: **EP1302458 A1** - 2003-04-16
  - 4 **Ester derivatives**  
Publication info: **US6846835 B2** - 2005-01-25  
**US2003191316 A1** - 2003-10-09
  - 5 **Ester derivatives**  
Publication info: **US2005065211 A1** - 2005-03-24
  - 6 **ESTER DERIVATIVES**  
Publication info: **WO0204402 A1** - 2002-01-17

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equivalent  
US 6,846,835

823

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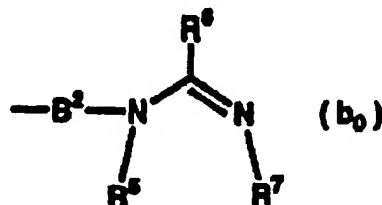
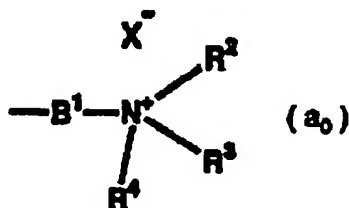
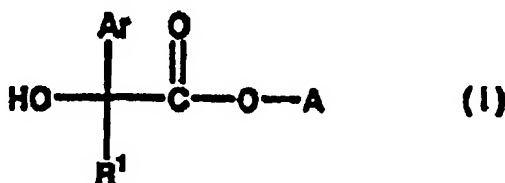
(71) 出願人 (米国を除く全ての指定国について): 萬有製薬株式会社 (BANYU PHARMACEUTICAL CO., LTD.)

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[続葉有]

(54) Title: ESTER DERIVATIVES

(54) 発明の名称: エステル誘導体



(57) Abstract: Compounds of the general formula (I), which exhibit selective muscarinic M<sub>3</sub> receptor antagonism, little have side effects, and are suitable for administration by inhalation and useful as therapeutic agents for respiratory system diseases or the like: (I) wherein A is a group of the general formula (a<sub>0</sub>) or (b<sub>0</sub>): (a<sub>0</sub>) (b<sub>0</sub>) Ar is aryl or heteroaryl, any of which may be substituted; B<sup>1</sup> and B<sup>2</sup> are each an aliphatic hydrocarbon group; R<sup>1</sup> is fluorinated cycloalkyl; R<sup>2</sup>, R<sup>3</sup> and R<sup>4</sup> are each lower alkyl, or a single bond or alkylene, any of which is bonded to B<sup>1</sup>, or alternatively R<sup>2</sup> and R<sup>3</sup> may be united to form alkylene; R<sup>5</sup> and R<sup>7</sup> are each hydrogen, lower alkyl, or a single bond or alkylene, any of which is bonded to B<sup>2</sup>; R<sup>6</sup> is hydrogen, lower alkyl, or N(R<sup>8</sup>)R<sup>9</sup>; and X<sup>-</sup> is an anion.

[続葉有]

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